



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

Mid-States Asphalt & Cant Strip, Inc.

**1637 51st Avenue
Tuscaloosa, AL 35401**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA – Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: MSA - BUR Systems over Gypsum Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/ series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 6.

The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Built-Up Roofing
Material: Fiberglass
Deck Type: Poured Gypsum
Maximum Design Pressure: -45 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Arrowglass Base	36" x 108'	ASTM D 4601 Type II	A non-porous 28 pound base sheet consisting of a heavyweight, fiberglass mat saturated with type IV asphalt with a sand surfacing. For use as a mechanically fastened or adhered base sheet in a wide variety of built-up roofing applications.
MSA MG2 Base Sheet	36" x 108'	ASTM D 4601 Type II	A non-porous 28 pound base sheet consisting of a heavyweight, fiberglass mat saturated with polymer modified asphalt with a sand surfacing. For use as a mechanically fastened or adhered base sheet in a wide variety of built-up roofing applications.
MSA Ply 4	36" x 180'	ASTM D 2178 Type IV	A heavyweight fiberglass mat saturated with type IV asphalt, giving excellent strength and weathering characteristics. For use as a ply sheet in hot mopped built-up roofing applications
MSA Ply 6	36" x 180'	ASTM D 2178 Type VI	A heavyweight fiberglass mat saturated with type IV asphalt, giving excellent strength and weathering characteristics. For use as a ply sheet in hot mopped built-up roofing applications



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APPROVED INSULATIONS:**TABLE 2**

<u>Product</u>	<u>Product Description</u>	<u>Manufacturer</u> (With current NOA)
ACFoam Composite	Composite Insulation board	Atlas Energy Products
ISO 95+ Composite	Composite Insulation board	Firestone Bldg. Products
EnergyGuard Perlite Recover Board, EnergyGuard Perlite	Rigid perlite roof insulation board	GAF Material Corp.
EnergyGuard High Density Fiberboard	High Density Wood Fiber board	GAF Material Corp.
ENRGY 3 Plus	Composite Insulation board	Johns Manville
Fesco Board	Rigid perlite roof insulation board	Johns Manville Corp.
Thermarroof Composite-3	Composite Insulation board	RMax

APPROVED FASTENERS:**TABLE 3**

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	N/A	N/A	N/A	N/A

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Factory Mutual Research	3004059	FM 4470	09/23/10
PRI Construction Material Technologies	BWR-506-02-01	ASTM D 2178	01/23/09
	BWR-530-02-01	ASTM D 4601	12/03/10
	BWR-508-02-01	ASTM D 4601	01/23/09
	BWR-505-02-01	ASTM D 2178	01/23/09



APPROVED ASSEMBLIES:

Membrane Type: BUR
Deck Type 6I: Poured Gypsum, Insulated
Deck Description: Poured gypsum concrete
System Type A: Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of Arrowglass Base or MSA MG2 Base Sheet fastened to the deck as described below:

Fastening: Attach base sheet using ES Products 1.7" FP Base Sheet Fasteners, Nail-Tite Type R
Option#1 Fasteners, FM-60 with FM-30 Discs, FM-90 Fasteners or OMG C-R Fasteners spaced 9" o.c. in a 3" lap and 18" o.c. in two staggered rows equally spaced in the center of the sheet.

Fastening: Attach base sheet using OMG C-R Fasteners spaced 4" o.c. in a 3" lap and 9" o.c. in
Option#2 two staggered rows in the center of the sheet

Fastening: Attach base sheet using ES Products 1.7" FP Base Sheet Fasteners, Nail-Tite Type R
Option#3 Fasteners, FM-60 with FM-30 Discs, FM-90 Fasteners or OMG C-R Fasteners spaced 7.5" o.c. in a 3" lap and 7.5" o.c. in one row in the center of the sheet.

Fastening: Attach base sheet using ES Products 1.7" FP Base Sheet Fasteners, Nail-Tite Type R
Option#4 Fasteners or FM-60 with FM-30 Discs spaced 4" o.c. in a 3" lap.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ Composite, ENRGY 3 Plus, ACfoam Composite, Thermarroof Composite-3 Minimum 1.5" thick	N/A	N/A
Fesco Board, EnergyGuard High Density Fiberboard, EnergyGuard Perlite, EnergyGuard Perlite Recover Board Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: Install One ply of Arrowglass Base or MSA MG2 Base Sheet directly to the insulated substrate with a 4" lap. Adhere in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: Two or more plies of MSA Ply 4 or MSA Ply 6 ply sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the base sheet.

Surfacing: Install the following:

1. Flood coat of hot asphalt at an application rate of 60 lbs./sq.; plus gravel fully embedded at an application rate of 400 lbs./sq.

Maximum Design Pressure: -45 psf (See General Limitation #9.)



Membrane Type: BUR
Deck Type 6: Poured Gypsum, Non-Insulated
Deck Description: Poured gypsum concrete
System Type E: Base sheet mechanically fastened.

All General and System Limitations apply.

Anchor Sheet: One ply of Arrowglass Base or MSA MG2 Base Sheet fastened to the deck as described below:

Fastening: Attach base sheet using ES Products 1.7" FP Base Sheet Fasteners, Nail-Tite
Option#1 Type R Fasteners, FM-60 with FM-30 Discs, FM-90 Fasteners or OMG C-R Fasteners spaced 9" o.c. in a 3" lap and 18" o.c. in two staggered rows equally spaced in the center of the sheet.

Fastening: Attach base sheet using OMG C-R Fasteners spaced 4" o.c. in a 3" lap and 9" o.c.
Option#2 in two staggered rows in the center of the sheet

Fastening: Attach base sheet using ES Products 1.7" FP Base Sheet Fasteners, Nail-Tite
Option#3 Type R Fasteners, FM-60 with FM-30 Discs, FM-90 Fasteners or OMG C-R Fasteners spaced 7.5" o.c. in a 3" lap and 7.5" o.c. in one row in the center of the sheet.

Fastening: Attach base sheet using ES Products 1.7" FP Base Sheet Fasteners, Nail-Tite
Option#4 Type R Fasteners or FM-60 with FM-30 Discs spaced 4" o.c. in a 3" lap.

Fastening: Attach base sheet using Simplex Turbo Tube-Lok Fasteners spaced 9" o.c. in a 4"
Option#5 lap and 12" o.c. in two rows equally spaced and staggered in the field of the sheet.

Ply Sheet: Two or more plies of MSA Ply 4 or MSA Ply 6 ply sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to the anchor sheet.

Surfacing: Install the following:
1. Flood coat of hot asphalt at an application rate of 60 lbs./sq.; plus gravel fully embedded at an application rate of 400 lbs./sq.

Maximum Design Pressure: -45 psf (See General Limitation #9.)

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
- 11 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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